P60
用户手册

PIHOT

重要声明和安全指引

欢迎您选购本公司产品，为了让您更容易、方便地使用这台无人机，请您详细阅读本说明书之后再操作，同时请您妥善保存此说明书，作为以后调整及维修的参考。

重要声明

- 该产品不是玩具，而是将机械、电子、空气力学、高频发射等专业知识整合为一体的精密设备，需要正确组装和调试才可避免事故发生。该产品持有人必须使用安全的方式来操作控制：操作不当，可能引起严重的人身伤害或财产损失。
- 本产品适用于有操作模型无人机经验、年龄不小于14周岁的人群。
- 如遇使用、操作、维修等问题，请与当地经销商或本公司相关人员联系。我司和销售商对因使用或操作不当而引起的任何损失和损坏以及人体的伤害不负任何责任。
- 产品含有小零件，请将其置于小孩不能触及的地方，以免发生误食或窒息危险。

安全注意事项

遥控模型无人机是最高危险性商品，飞行时务必远离人群。人为组装不当或机体损坏，电子控制不良，以及操作不熟悉，都有可能导致无人机损坏或人身伤害等不可预测的意外。请操作飞行者务必注意飞行安全，必需了解自身疏忽所造成意外的责任。

- 远离障碍物及人群
  遥控无人机飞行时具有不确定的飞行速度和状态，存在潜在的危险性。飞行时必须远离人群、高层建筑、高压电线等，同时避免在风雨、雷电等恶劣天气下飞行。调试安装无人机必须严格按照操作说明书上操纵，注意无人机飞行时与使用者或其他人保持1–2米的距离，避免无人机飞行、降落时撞向人的头部、脸部和身体等，引起伤害。
- 远离潮湿环境
  无人机内部是由许多精密的电子元件和机械零件组成，所以，必须防止无人机潮湿或水气进入机体，以免机械、电子元件故障而引发意外。维护保养时请用干净抹布擦拭表面污渍。
- 避免独自操控
  遥控无人机操控技巧在学习初期有着一定的难度，要尽量避免独自操作飞行，需有经验的人士指导。
- 正当使用本产品
  请使用本公司原装零件进行改装或者维修，以确保飞行的安全。请在产品功能允许的范围内进行操作和使用，且不得用于安全法令之外的其他非法用途。
- 安全操作
  1. 请根据自身的状态和飞行技能，操作遥控无人机。疲劳、精神不佳或操作不当，将会增加意外风险的概率。
  2. 不要靠近耳朵使用！误用可能导致听力损坏。
- 远离高速旋转部件
  当无人机旋翼在高速旋转时，请飞行员、周围人群和物体远离旋转部件，以免造成危险及损坏。
- 远离热源
  遥控无人机是由金属、纤维、塑料、电子元件等材料组成，因此要尽量远离热源、防止日晒，避免因高温引起变形，甚至损坏。
- 环保要求
  随意丢弃该产品，可能会对环境造成影响，请按当地法律法规要求妥善回收处理。

P60系列飞行教程视频

扫码观看教学视频

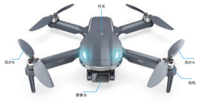
⚠ 新手注意事项

- 新手飞行前请装上无人机保护罩。
- 起飞前将无人机摄像头朝前（更容易辨识方向）。
- 为了避免丢失你的无人机，新手飞行距离请控制在5米以内。
- 请在空旷且无风或微风环境下飞行。
- 坠毁或猛烈撞击后请彻底检查无人机。
- 将无人机和遥控器存放在阴凉干燥的地方，远离阳光直射。
- 避免将无人机直接接触水或其他液体。如有接触，请立即用吸水布擦干。

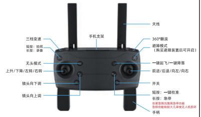
⚠ 禁止说明

为保证航空无线电台（站）电磁环境的要求，禁止在以机场跑道中心线两侧各10公里，跑道两端各20公里范围内以及民航航路、航线，使用各类模型遥控器、无人机。在国家有关部门发布无线电管制命令的期间、区域内，应按要求停止使用模型遥控器、无人机。

飞行器部件名称



遥控器按键功能介绍（P40 Plus系列 P40 Pro系列）

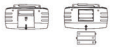


为飞行器电池充电

从无人机取下电池，将电池连接充电线，充电线连接USB充电口(不可使用快充)，即可充电。充电线上的LED指示灯，在充电时变成红色长亮，充满电后熄灭。

为遥控器安装电池

适用电池：
1.5V AA电池 X3 （另购）



注意事项

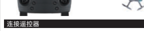
- 给充电电池充电时，不要单独给儿童使用，必须在成人监护下进行，充电时必须远离易燃物，充电时监护人请不要离开电池到监视范围外。
- 请不要短路、挤压电池，以免发生爆炸。
- 电源接线端不应从电池中取出，接线端不应短路；切勿将电池短路、分解或投入火中；切勿将电池放在高温、受热的地方(如火中或电热装置附近)
- 模型只能使用推荐的充电器，定期检查充电器的电线、插头外壳和其他部件是否损坏，发现损坏时应停止使用，直至修复完好
- 充电器不是玩具；充电器只能在室内使用。
- 飞行后的电池需充电再保存，如不使用，建议每3个月内至少对电池充电一次，以免电池过度放电而永久性的损坏电池

叶片更换事宜

1.将要更换的风叶必须对应机臂上相对的位置更换。风叶A需安装在A的位置上，风叶B需安装在B的位置上，如更换风叶错误将无法操控。
2.飞行时风叶A往顺时针方向转动，风叶B往逆时针方向转动。

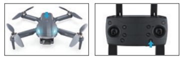
避障功能介绍(额外购买避障模块后可开启)

无人机飞行过程中，短按遥控器上的避障开关按键即可开启避障功能，开启后无人机灯光慢闪。当无人机飞行方向遇到障碍物时，无人机会自动刹停在离障碍物约1米的距离，并快速闪烁灯光，同时遥控器发出滴滴警告声，此时无人机无法继续往该方向飞行。（风大时请慎用避障功能）



连接遥控器

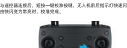
1.将电池按正确方向装入飞行器电池槽，将飞行器放至水平地面，长按开关约3秒，飞行器灯光闪烁表示开机成功。
2.打开遥控器开关，遥控器发出嘀嘀声后，无人机灯光从快速闪烁变为常亮，连接成功。



⚠ ● 遥控器与飞行器对码时，请确保同一时刻，没有其它遥控器与飞行器在通电状态，否则会对错。

陀螺仪校准

无人机与遥控器连接后，短按一键校准按键，无人机前后指示灯快速闪烁，陀螺仪自动校准，指示灯由快闪变为常亮时，校准完成。



⚠ ● 进行陀螺仪校准时，务必将飞行器放在水平面上，否则会影响飞行。

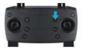
基础飞行

飞行前检查：
1.遥控器、飞行器电池是否电量充足。
2.桨叶是否正确安装。
3.开机解锁后电机是否正常启动。

基础飞行步骤：
1.遥控器与飞行器对码。
2.连接无人机wifi后打开软件。
3.进行陀螺仪校准。

起飞方式 ①（推荐使用）：

短按一键起飞按键，无人机自动起飞至约1.5米。



起飞方式②：

将遥控器左摇杆推至左下角45°，同时右摇杆推至右下角45°，解锁飞行器。解锁后，将左摇杆向上推，即可起飞。（如下图1，图2所示）

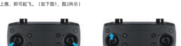
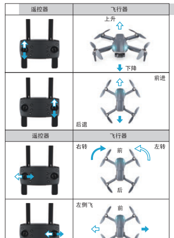


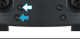
图1　　图2

飞行控制方法



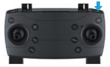
摄像头远程调节

长按遥控器上的摄像头向上按键，无人机镜头向上调节；
长按遥控器上的摄像头向下按键，无人机镜头向下调节.



360°翻转：

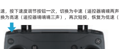
无人机飞到超过3米的高度，按下360°翻转按钮，将右摇杆往任意方向推动，无人机即可完成空中特技翻滚。



速度调节：

无人机的默认是低速，按下速度调节按钮一次，切换为中速（遥控器嘀嘀两声），再次按下速度调节按钮一次，切换为高速（遥控器嘀嘀嘀三声），再次短按，恢复为低速（遥控器嘀一声）。

注意：室外有风环境
请使用二档或
三档飞行速度



常见故障解决

序列	问题	解决方法
01	飞行器起飞后，不能悬停，向一边倾斜比较大	将飞行器放在平面或水平地面上，重新进行陀螺仪校准。
02	飞行器震动很厉害	风叶变形，需更换风叶
03	飞行器无法起飞	遥控器或飞行器电池电压太低，请将电池充满电。
04	大风中飞行器飞行不稳	待无风或微风再飞行
05	无人机没有响应	确保无人机和移动设备的距离在有效范围内
06	无人机只能用手机操控	无人机正确连接顺序为：无人机-遥控器-移动设备
07	开启避障模式后，速度很慢	避障模式下无人机会自动调低速度因为避障模式一般在室内飞行时使用

P60
instruction manual

PIHOT

Important Notices and Safety Guidelines

You are welcome to buy our products, in order to make it easier and more convenient for you to use this drone, please read this manual in detail.Do it later, and please keep this manual properly as an important statement for future adjustments and maintenance.

DISCLAIMER

- This product is not a toy, but a precision that integrates professional knowledge such as machinery, electronics, aerodynamics, and high-frequency emission.It needs to be assembled and debugged correctly to avoid accidents. The product holder must use a safe way to operate Control; improper operation may cause serious personal injury or property damage.
- This product is suitable for people who have experience in operating model drones and are at least 14 years old.
- In case of improper use or operation, please contact your local dealer or our company's personnel. Our company and seller are not responsible for any loss and damage caused by improper use or operation, as well as personal injury.
- Product contains small parts, Keep out of the reach of children to avoid eating or suffocation.

SAFETY PRECAUTIONS

UAV remote control model is the most dangerous product, be sure to flight away from the crowd. Improper assembly or damage to the body, pool electronic control and unfamiliar operations may cause unpredictable accidents such as damage to the drone or personal injury. Please pay attention to flight safety, and you must understand the responsibility for accidents caused by your own negligence.

- AWAY FROM OBSTRUCTIONS AND CROWD
  UAV remote control has flying speed and flight status uncertain, there is a potential danger. Stay away from crowds,High-rise buildings, power lines, etc. when flying, while avoiding flying in the wind and rain, lightning and other inclement weather. Debugging and installation of drones must strictly follow the operating instructions manipulate, keep a distance of 1-2 meters of the user or other person to avoid hitting the head, face and body of a person when flying or landing, causing injury.
- AWAY FROM MOISTURE ENVIRONMENT
  The internal of UAV is composed of many electronic components and precision mechanical parts, it is necessary to prevent moisture or water vapor into the UAV. In order to avoid mechanical,electronic component failure caused accidents. Please wipe the surface stains with a clean cloth during maintenance.
- AVOID MANIPULATION ALONE
  The experimental skills are learning some short-term difficulty. To try to operate the flight by yourself, you need experienced technical guidance.
- PROPER USING THIS PRODUCT
  Please use our original parts for modification or maintenance to ensure flight safety. Follow the instructions and use the product within the range permitted by function and not be used for illegal purposes other than the security decree.
- SAFE OPERATION
  1. Please operate the remote control drone according to your own status and flying skills. Fatigue, poor spirits or improper operation will increase the probability of accident risk.
  2. Do not use it close to the ear! Misuse may cause hearing damage.
- KEEP AWAY FROM HIGH-SPEED ROTATING PARTS
  When the drone's rotor is rotating at high speed, please keep the pilot, surrounding people and objects away from the rotating parts to avoid danger and damage.
- KEEP AWAY FROM HEAT
  The remote control drone is composed of metal, fiber, plastic, electronic components and other materials. Therefore, it is necessary to keep away from heat sources, prevent the sun, and avoid deformation or even damage due to high temperature.
- ENVIRONMENTAL REQUIREMENTS
  Discarding this product at will may cause environmental impact, please recycle it properly in accordance with local laws and regulations.

P60 FLIGHT TUTORIAL VIDEO

Scan the code to watch the instructional video

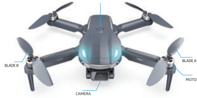
⚠ Notes for novices

- Please install the drone protective cover before flying.
- Before taking off, put the drone's camera facing forward (it is easier to identify the direction).
- In order to avoid losing your drone, please control the flying distance of novices within 5 meters.
- Please fly in an open environment with no wind or breeze.
- Please thoroughly inspect the drone after crashing or violent impact.
- Store the drone and remote control in a cool and dry place, away from direct sunlight.
- Avoid direct contact with water or other liquids. If there is any contact, wipe it dry immediately with an absorbent cloth.

⚠ PROHIBIT DESCRIPTION

To ensure aviation radio (station) electromagnetic environmental requirements, It is prohibited to use all kinds of model remote controls and drones within 10 km on each side of the center line of the airport runway and 20 km on each end of the runway, as well as civil aviation routes and air routes . During the national authorities issued radio control commands in the region, it should be required to stop using the remote control model, drone.

AIRCRAFT PART NAME



FCC WARNING

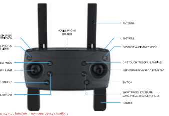
This device complies with part 15 of the FCC Rules. Operation is subject to thefollowing two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to orrect the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum 20cm distance between the radiator and your body: Use only the supplied antenna.

REMOTE CONTROL FUNCTION



Do not use the emergency stop function in non emergency situations
The emergency stop function has a great chance to damage the UAV

FCC WARNING

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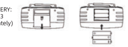
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help.
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

CHARGE AIRCRAFT BATTERY

Remove the battery from the drone, connect the battery to the charging cable, and connect the charging cable to the USB charging port (fast charging is not allowed), and it can be charged. The LED indicator on the charging cable will turn red when charging and will go out when fully charged.

INSTALL THE BATTERY

APPLICABLE BATTERY:
1.5V AA battery X3
(available separately)



⚠ PRECAUTIONS

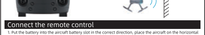
- When charging the rechargeable battery, do not use it alone for children. It must be done under the supervision of an adult.Keep away from flammable materials when charging, and guardians should not leave the battery out of the monitoring range when charging.
- Please do not short-circuit or squeeze the battery to avoid explosion.
- The power terminal should not be taken out of the battery, and the terminal should not be short-circuited; do not short-circuit the battery,Decompose or throw into fire; do not put the battery in high temperature, heated places (such as fire or electric heating equipment Near).
- The model can only be used with the recommended charger. Regularly check the charging cable, plug shell and other components for damage, stop using them if they are found to be damaged, until the repair is intact.
- The charger is not a toy; the charger can only be used indoors.
- The battery after the flight needs to be charged and then stored. If not in use, It is recommended to charge the battery at least once every 3 months, so as not to over-discharge the battery and permanently damage the battery.

BLADE REPLACEMENT

1. The blades to be replaced must be replaced corresponding to the relative position on the arm. Fan blade A needs to be installed at position A, and fan blade B needs to be installed In position B, if the blade is replaced incorrectly, it will not be able to be controlled.
2. When flying, blade A rotates clockwise, and blade B rotates counterclockwise.

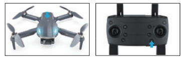
Obstacle avoidance（Available after purchasing modules）

During the flight of UAV, short press the obstacle avoidance switch on the remote control to turn on the obstacle avoidance function. After turning on, the UAV light flashes slowly. When the UAV encounters an obstacle in the flight direction, drone will automatically stop at a distance of about 1m from the obstacle and flash the light quickly. At the same time, the remote control will give a beep warning sound. At this time, the UAV cannot continue to fly in this direction.
(Please use obstacle avoidance function with caution during strong winds)



Connect the remote control

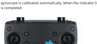
1. Put the battery into the aircraft battery slot in the correct direction, place the aircraft on the horizontal ground, press and hold the switch for about 3 seconds, and the aircraft light flashes, indicating that the startup is successful.
2. Turn on the remote control switch. After the remote control beeps, the light of the UAV changes from fast flashing to constant light. The connection is successful.



⚠ ● When the remote controller is connected to the aircraft, please ensure that no other remote controller and aircraft are powered on at the same time, otherwise the code will be crossed.

Gyro calibration

After the UAV is connected with the remote control, short press one key calibration button . The front and rear indicator lights of the UAV flash quickly, and the gyroscope is calibrated automatically. When the indicator light changes from flash to constant light, the calibration is completed.



⚠ ● During calibration, the aircraft must be placed on the horizontal ground, otherwise it will affect the flight stability.

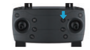
BASIC FLIGHT

CHECK BEFORE FLIGHT:
1. Whether the battery of the remote control and aircraft is fully charged.
2. Whether the propeller is installed correctly.
3. Whether the motor starts normally after the power is turned on and unlocked.

BASIC FLIGHT STEPS:
1. Code pairing between the remote controller and the aircraft.
2. Open the software after connecting the drone wifi.
3. Perform gyroscope calibration.

Take-off method①（Recommended use）:

Short press the one-key takeoff button, the drone will automatically take off to about 1.5 meters.



Take-off method②:

Push the left stick of the remote control to 45° in the lower left corner, and at the same time push the right stick to 45° in the lower right corner to unlock the aircraft. After unlocking, move the left stick to Push up to take off. (As shown in Figure 1, Figure 2 below)

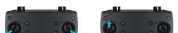
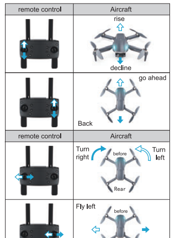


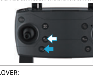
Figure 1　　Figure 2

FLIGHT CONTROL METHOD



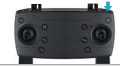
CAMERA ADJUSTMENT

Long press the camera up button on the remote control to adjust the drone lens upwards;
Long press the camera down button on the remote control to adjust the drone lens downward.



360° ROLLOVER:

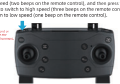
The drone flies to a height of more than 3 meters, press the 360° flip button, push the right joystick in any direction, and the drone can complete Aerial stunt rolls.



SPEED ADJUSTMENT:

The default of the drone is low speed. Press the speed adjustment button once to switch to medium speed (two beeps on the remote control), and then press the speed adjustment button again to switch to high speed (three beeps on the remote control), short press again to return to low speed (one beep on the remote control).

Note: please use the second or third flight speed in the outdoor windy environment.



TROUBLE SHOOTING

	PROBLEM	SOLUTION
01	After taking off, the aircraft cannot hover.Leaning to one side is relatively large	Place the aircraft on a flat or level ground, Re-calibrate the gyroscope.
02	The aircraft vibrates very badly.	The blades are deformed and need to be replaced.
03	The aircraft cannot take off.	The battery voltage of the remote control or aircraft is too low,Please fully charge the battery.
04	Unsteady flight of the aircraft in strong wind.	Wait until there is no wind or breeze before flying.
05	The drone is not responding.	Ensure that the distance between the drone and the mobile device is within the effective range.
06	The drone can only be controlled with a mobile phone.	The correct connection sequence of the drone is: Drone-remote control-mobile device
07	When obstacle avoidance mode is turned on, the flight speed is slow	In obstacle avoidance mode, the UAV will automatically reduce its speed.Because obstacle avoidance mode is generally used when flying indoors